(CHEET 1 OF 16)

ACGTTGACAC AGGAATGAAG AGTGTATTGG CTGAA ATGTGCTTTT TAAATTGGCC TGCGTGACCC GCCCA AAGGGAGGGC CTGAAGGACC TCCACAGGAG TGTGA TCAGGTCCAC ATCTTGGGAA GAAT ATG GCC ACT Met Ala Thi	ACTTGG TGTAAAAGAA GAACCGGCCA 120
ATG CTG ATC ATA GCC TGC GTT GGC AGC AC Met Leu Ile Ile Ala Cys Val Gly Ser Th 10	CT GTC TTC TAC AGA GAA CAG 279 ar Val Phe Tyr Arg Glu Gln 25
CAG ACC TGG TTT GAA GGT GTC TTC TTG TC Gln Thr Trp Phe Glu Gly Val Phe Leu Se 30	r Ser Met Cys Pro Ile Asn
GTC AGT GCC GGC ACC TTT TAT GGA ATT AT Val Ser Ala Gly Thr Phe Tyr Gly Ile Me	G TTT GAT GCG GGC AGC ACT 375 t Phe Asp Ala Gly Ser Thr 55
GGA ACT CGG ATT CAT GTT TAC ACT TTT GTG Gly Thr Arg Ile His Val Tyr Thr Phe Val 60 65	G CAG AAA ACA GCA GGA CAG 423 1 Gln Lys Thr Ala Gly Gln 70
CTC CCC TTT CTG GAA GGT GAA ATT TTT GAY Leu Pro Phe Leu Glu Gly Glu Ile Phe Asp 75 80	T TCT GTG AAG CCG GGA CTT 471 Ser Val Lys Pro Gly Leu 85
TCT GCT TTT GTG GAT CAG CCC AAA CAG GGT Ser Ala Phe Val Asp Gln Pro Lys Gln Gly 90 95	G GCT GAG ACT GTC CAG GAG 519 Ala Glu Thr Val Gln Glu 100 105
CTC TTG GAG GTG GCC AAA GAC TCG ATC CCC Leu Leu Glu Val Ala Lys Asp Ser Ile Pro 110	Arg Ser His Trp Glu Arg 120
ACC CCG GTG GTT CTG AAA GCA ACG GCC GGA Thr Pro Val Val Leu Lys Ala Thr Ala Gly 125 130	Leu Arg Leu Leu Pro Glu 135
CAG AAA GCC CAG GCT CTG CTC TTG GAG GTA Gln Lys Ala Gln Ala Leu Leu Leu Glu Val 140 145	Glu Glu Ile Phe Lys Asn 150
TCA CCT TTC CTG GTC CCA GAT GGC AGC GTT Ser Pro Phe Leu Val Pro Asp Gly Ser Val 155 160	Ser Ile Met Asp Gly Ser 165
TAT GAA GGC ATA CTA GCC TGG GTT ACC GTG Tyr Glu Gly Ile Leu Ala Trp Val Thr Val 170 175	Asn Phe Leu Thr Gly Gln 180 185
CTG CAT GGT CGT GGC CAG GAG ACT GTG GGG Leu His Gly Arg Gly Gln Glu Thr Val Gly 190 195	Thr Leu Asp Leu Gly Gly 200
GCC TCC ACC CAA ATC ACG TTT CTA CCC CAG Ala Ser Thr Gln Ile Thr Phe Leu Pro Gln 205 210	Phe Glu Lys Thr Leu Glu 215
CAA ACA CCT AGG GGC TAC CTC ACT TCC TTT Gln Thr Pro Arg Gly Tyr Leu Thr Ser Phe 220 225	GAG ATG TTT AAC AGC ACT 903 Glu Met Phe Asn Ser Thr 230

F16. 1

"HEET 2 OF 16)

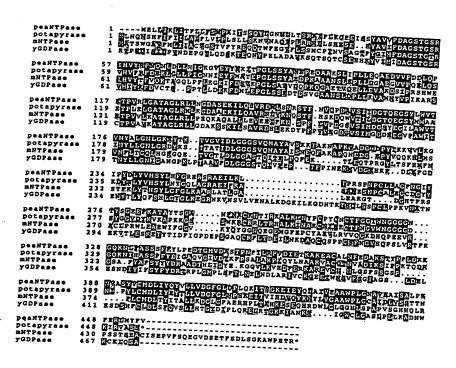
		s Le					Tyr					/ Leu			r GCA a Ala	951
	Let					, Ala					Gly				CAT His 265	999
					Cys					Lev					ATC Ile	1047
			GTG Val 285	Lys					Gly					Glu	ATG Met	1095
GGC Gly	TTT Phe	GAA Glu 300	Pro	TGC Cys	TAT	GCG Ala	GAA Glu 305	Val	CTG Leu	AGG Arg	GTA Val	GTA Val 310	CAG Gln	GGG Gly	AAA Lys	1143
CTT Leu	CAC His 315	Gln	CCA Pro	GAA Glu	GAA Glu	GTC Val 320	Arg	GGA Gly	AGC Ser	GCC Ala	TTC Phe 325	Tyr	GCT Ala	TTC Phe	TCT Ser	1191
			GAT Asp													1239
			TTA Leu													1287
			TTG Leu 365													1335
GAC Asp	CTC Leu	ACT Thr 380	TAC Tyr	ATC Ile	ACA Thr	GCC Ala	CTG Leu 385	TTG Leu	AAA Lys	GAT Asp	GGT Gly	TTG Leu 390	GGC Gly	TTT Phe	GCC Ala	1383
Glu			CCT Pro													1431
			CTT Leu						Pro							1479
CAC His	CAG Gln	CTG Leu	AGG Arg	CCA Pro 430	AGC Ser	TCC Ser	ACC Thr	Ser	GAA Glu 435	GCC Ala	TGC Cys	ATT Ile	TCT Ser	GAA Glu 440	CCA Pro	1527
GTT Val	TTC Phe	TCA Ser	CAG Gln 445	GAA Glu	GGC Gly	GTG Val	Asp	TCA (Ser (450	GAG . Glu	ACA Thr	TTT Phe	Ser .	GAC Asp 455	CTC Leu	TCT Ser	1575
	Lys		TGG Trp			Thr .		TAAC	TGGT'	гт т	ATAA	GGAG	G GA	GGGG	ТТТТ	1629

Fig. 1 (cont'd.)

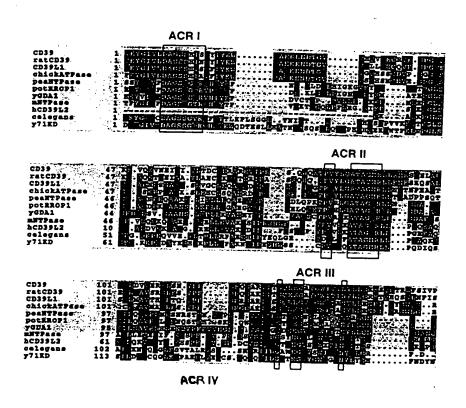
"CHEET 3 OF 16)

TTCTTTGTAC AGAGTCCTGC AAAGGAAAAA AGAGAAAAGG TTTGGAACTC CATGCTAGAT TGCGAGTTCA GAGACAGGTC CCTGGGGACC AAAGAACAAT CTCGTTTCAA CCCTTGGATG CCTCATTGCT TTGAATGGAT TCATTTTTGC TTATAAGCTG ATTTACTGAA ATCCCATAAC CCATCAATGC TGTTAATTTT TTTCTTTCCTA CCCTTATTAC ATTCCCTACC CTAAAAGGCT GGGGGAAATA CCTGGTTTTG CTTCCCATCT ATAATTGAGA AAGAGGGGGG AAAAGATACT GTATTAGAAT TTGTGTGATC CTGTGGCACA ATAGATCAAC CAACCCATTT AAAGCTTAAA AAAAAAAAAA

F16. 1 (contid.)



F16.2



F16.3

(HEET 6 OF 16)

GTGGGGTCGT ATCCCGCGGG TGGAGGCCGG GGTGGCGCCG GCCGGGGCGG GGGAGCCCAA AAGACCGGCT GCCGCCTGCT CCCCGGAAAA GGGCACTCGT CTCCGTGGGT GTGGCGGAGC GCGCGGTGCA TGGAATGGGC TATGTGAATG AAAAAAAGGTA TCCGTTATGA AACTTCCAGA AAAACGAGCT ACATTTTCA GCAGCCGCAG CACGGTCCTT GGCAAACAAG G ATG AGA Met Arg	60 120 180 237
AAA ATA TCC AAC CAC GGG AGC CTG CGG GTG GCG AAG GTG GCA TAC CCC Lys Ile Ser Asn His Gly Ser Leu Arg Val Ala Lys Val Ala Tyr Pro 5 10 15	285
CTG GGG CTG TGT GTG GGC GTG TTC ATC TAT GTT GCC TAC ATC AAG TGG Leu Gly Leu Cys Val Gly Val Phe Ile Tyr Val Ala Tyr Ile Lys Trp 20 25 30	333
CAC CGG GCC ACC GCC ACC CAG GCC TTC TTC AGC ATC ACC AGG GCA GCC His Arg Ala Thr Ala Thr Gln Ala Phe Phe Ser Ile Thr Arg Ala Ala 40 45 50	381
CCG GGG GCC CGG TGG GGT CAG CAG GCC CAC AGC CCC CTG GGG ACA GCT Pro Gly Ala Arg Trp Gly Gln Gln Ala His Ser Pro Leu Gly Thr Ala 55 60 65	429
GCA GAC GGG CAC GAG GTC TTC TAC GGG ATC ATG TTT GAT GCA GGA AGC Ala Asp Gly His Glu Val Phe Tyr Gly Ile Met Phe Asp Ala Gly Ser 75 80	477
ACT GGC ACC CGA GTA CAC GTC TTC CAG TTC ACC CGG CCC CCC AGA GAA Thr Gly Thr Arg Val His Val Phe Gln Phe Thr Arg Pro Pro Arg Glu 85 90 95	525
ACT CCC ACG TTA ACC CAC GAA ACC TTC AAA GCA GTG AAG CCA GGT CTT Thr Pro Thr Leu Thr His Glu Thr Phe Lys Ala Val Lys Pro Gly Leu 100 105 110	573
TCT GCC TAT GCT GAT GAT GTT GAA AAG AGC GCT CAG GGA ATC CGG GAA Ser Ala Tyr Ala Asp Asp Val Glu Lys Ser Ala Gln Gly Ile Arg Glu 125 130	621
135 140 Phe Asp Phe Trp Lys Ala	669
150 155 Leu Arg Leu Pro Gly	717
165 170 Lys Glu Val Phe Lys Ala	65
TCG CCT TTC CTT GTA GGG GAT GAC TGT GTT TCC ATC ATG AAC GGA ACA 8 Ser Pro Phe Leu Val Gly Asp Asp Cys Val Ser Ile Met Asn Gly Thr 180 185 190	13
200 205 210	51 .
TTG AAA ACT CCA GGA GGG AGC AGC GTG GGC ATG CTG GAC TTG GGC GGA 90 Leu Lys Thr Pro Gly Gly Ser Ser Val Gly Met Leu Asp Leu Gly Gly 215 220 225	9

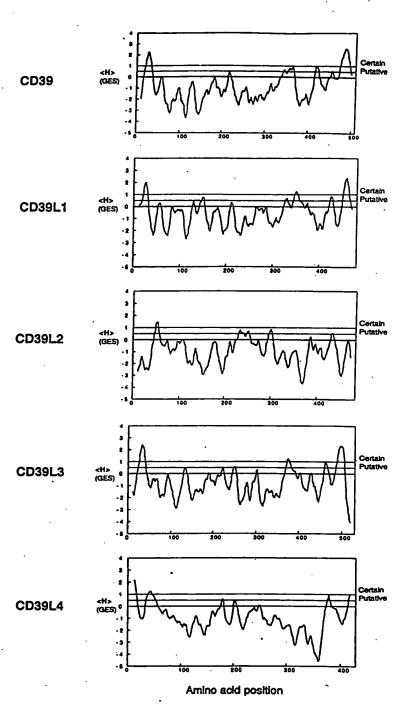
(HEET 7 OF 16)

GG/ Gl ₃	A TC y Se	C AC	CAC Glr 230	ı Ile	GCC Ala	TTC Phe	CTC Leu	235	o Ar	C GTO	G GAC l Glu	G GGC	ACC Thr 240	Let	G CAG	957
GC0 Ala	C TC	C CCA r Pro 245	Pro	GGC Gly	TAC	CTG Leu	ACG Thr 250	Ala	A CTO	G CGC	G ATO	TTT: Phe 255	Asn	AGG Arg	ACC Thr	1005
TAC	260	s Let	TAT Tyr	TCC Ser	TAC Tyr	AGC Ser 265	Tyr	Leu	GGG GL ₃	CTC Leu	GGG Gly 270	Leu	ATG Met	TCG Ser	GCA Ala	1053
CGC Arg 275	Let	G GCG Ala	ATC Ile	CTG Leu	GGC Gly 280	GGC Gly	GTG Val	GAG Glu	GGG Gly	CAG Gln 285	Pro	GCT Ala	AAG Lys	GAT Asp	GGA Gly 290	1101
AAG Lys	GAG Glu	TTG Leu	GTC Val	AGC Ser 295	CCT Pro	TGC Cys	TTG Leu	TCT Ser	CCC Pro 300	Ser	TTC Phe	AAA Lys	GGA Gly	GAG Glu 305	TGG Trp	1149
GAA Glu	CAC His	GCA Ala	GAA Glu 310	GTC Val	ACG Thr	TAC Tyr	AGG Arg	GTT Val 315	TCA Ser	GGG Gly	CAG Gln	AAA Lys	GCA Ala 320	GCG Ala	GCA Ala	1197
AGC Ser	CTG Leu	CAC His 325	GAG Glu	CTG Leu	TGT Cys	GCT Ala	GCC Ala 330	AGA Arg	GTG Val	TCA Ser	GAG Glu	GTC Val 335	CTT Leu	CAA Gln	AAC Asn	1245
AGA Arg	GTG Val 340	CAC His	AGG Arg	ACG Thr	GAG Glu	GAA Glu 345	GTG Val	AAG Lys	CAT His	GTG Val	GAC Asp 350	TTC Phe	TAT Tyr	GCT Ala	TTC Phe	1293
TCC Ser 355	TAC Tyr	TAT Tyr	TAC Tyr	GAC Asp	CTT Leu 360	GCA Ala	GCT Ala	GGT Gly	GTG Val	GGC Gly 365	CTC Leu	ATA Ile	GAT Asp	GCG Ala	GAG Glu 370	1341
AAG Lys	GGA Gly	GGC Gly	Ser	CTG Leu 375	GTG Val	GTG Val	GGG Gly	GAC Asp	TTC Phe 380	GAG Glu	ATC Ile	GCA Ala	Ala	AAG Lys 385	TAC Tyr	1389
GTG Val	TGT Cys	Arg	ACC Thr 390	CTG (Leu (GAG /	ACA Thr	Gln	CCG Pro 395	CAG Gln	AGC Ser	AGC Ser	Pro 1	TTC Phe :	TCA Ser	TGC Cys	1437
ATG Met	Asp	CTC Leu 405	ACC Thr	TAC (Tyr \	GTĊ 1 Val S	Ser 1	CTG (Leu 1 410	CTA Leu	CTC Leu	CAG Gln	Glu :	TTC (Phe (415	GGC :	TTT (Phe)	CCC Pro	1485
AGG A	AGC Ser 420	AAA (Lys '	GTG (Val 1	CTG A Leu I	ys I	CTC A Leu 1 125	ACT (Thr)	CGG /	AAA . Lys	Ile A	GAC A Asp A	AAT (Asn \	GTT (/al (GAG A	ACC Thr	1533
AGC 1 Ser 1 435	rgg (rp /	GCT (Ala 1	CTG (TA W	CC A la I 40	TT T	TTT (Phe H	CAT T	Tyr :	ATC (Ile <i>I</i> 445	GAC 1	CC C	TG F	Asn A	AGA Arg 150	1581
CAG A	AAG A	AGT (Ser E	ro A	SCC T la S 55	CA T er	'AGTG	GCCG	GA GC	CCATO	ССТО	G TCC	CCGT	CAG	CAGT	GTCT	1637
GTGTG GGCCG TGGCA	IGCI	'G GC	ACTT	TCTG	CAC	ACTG	GCT	CTGG	CACT	ידה כ	ממסמי	GGCC	T CC	TOOT	CCCC	1697 1757 1817

FIG. 4 (contid.)

(HEET 8 OF 16)

FIG. 4 (contid)



F16.5

"HEET 10 OF 16)

ACCCACGCA CTCCGCA	GT CTGGG CAG CTAG	CCGCGG G GGAGAAA	AG ATG 1	TTC ACI	TO OTO T	AGTCGCCTT G ACC CGC u Thr Arg	CAA CCA Gln Pro	TCT 112
GAG CAA Glu Gln	GCA GGC Ala Gly	CTC AA Leu Ly 15	G GCC CT s Ala Le	eu Tyr	CGA ACT Arg Thr 20	CCA ACC	ATC ATT (Ile Ile 1 25	GCC 160 Ala
TTG GTG Leu Val	GTC TTG Val Leu 30	CTT GT	G AGT AT l Ser Il	TT GTG le Val 35	GTA CTT Val Leu	GTG AGT A	ATC ACT (lle Thr \ 10	STC 208 Val
ATC CAG Ile Gln	ATC CAC Ile His 45	Lys Gl	A GAG GT Glu Va 50	ıl Leu	CCT CCA Pro Pro	GGA CTG I Gly Léu I 55	AAG TAT G	GGT 256 Sly
ATT GTG Ile Val 60	CTG GAT Leu Asp	GCC GGC Ala Gly	G TCT TC Ser Se 65	A AGA A	ACC ACA Thr Thr	GTC TAC G Val Tyr V 70	TG TAT C	AA 304
TGG CCA (Trp Pro) 75	GCA GAA Ala Glu	AAA GAG Lys Glu 80	AAT AA Asn As	T ACC C	GGA GTG Gly Val 85	GTC AGT C Val Ser G	AA ACC T ln Thr P 9	he
AAA TGT A Lys Cys S	AGT GTG Ser Val	AAA GGC Lys Gly 95	TCT GG/ Ser Gly	y Ile S	CCC AGC Ser Ser .00	TAT GGA A Tyr Gly A	AT AAC Co sn Asn Po 105	CC 400 ro
CAA GAT C Gln Asp V	TC CCC Val Pro 110	AGA GCC Arg Ala	TTT GAG Phe Glu	G GAG T Glu C 115	GT ATG	CAA AAA G Gln Lys Va 12	TC AAG GO al Lys Gi 20	GG 448 Ly
Gin vai P	CA TCC ro Ser 25	CAC CTC His Leu	CAC GGA His Gly 130	Ser T	CC CCC A	ATT CAC CT [le His Le 135	G GGA GG	CC 496 La
ACG GCT G Thr Ala G 140	GG ATG	CGC TTG Arg Leu	CTG AGG Leu Arg 145	TTG C	ln Asn G	SAA ACA GO Slu Thr Al .50	A GCT AA a Ala As	AT 544
GAA GTC C Glu Val L 155	TT GAA A eu Glu S	AGC ATC Ser Ile 160	CAA AGC Gln Ser	TAC TT	TC AAG T ne Lys S 165	CC CAG CC er Gln Pr	C TTT GA o Phe As 17	P
TTT AGG GG Phe Arg G	TA VTF (CAA ATC Gln Ile 175	ATT TCT Ile Ser	GGG CA Gly Gl 18	n Glu G	AA GGG GT lu Gly Va	A TAT GG 1 Tyr G1 185	A 640 Y
TGG ATT AC	CA GCC A or Ala A 190	AC TAT Asn Tyr	TTA ATG Leu Met	GGA AA Gly As 195	T TTC C	TG GAG AA eu Glu Ly: 20	s Asn Lei	G 688 u
TGG CAC AT Trp His Me 20	et Trp v	TG CAC	CCG CAT Pro His 210	GGA GT Gly Va	G GAA AG l Glu Ti	CC ACG GG hr Thr Gly 215	F GCC CTO / Ala Leo	3 736 1
GAC TTA GG Asp Leu Gl 220	T GGT G y Gly A	la Ser :	ACC CAA Thr Gln	ATA TC	C TTC G1 r Phe Va 23	al Ala Gly	A GAG AAG Glu Lys	5 784 3

ATG Met 235	Asp	CTG Leu	AAC Asn	ACC Thr	AGC Ser 240	GAC Asp	ATC Ile	ATG Met	CAG Gln	GTG Val 245	TCC Ser	CTG Leu	TAT Tyr	GGC Gly	TAC Tyr 250	832
GTA Val	TAC Tyr	ACG Thr	CTC Leu	TAC Tyr 255	Thr	CAC His	AGC Ser	TTC Phe	CAG Gln 260	Cys	TAT Tyr	GGC Gly	CGG Arg	AAT Asn 265	GAG Glu	880
GCT Ala	GAG Glu	AAG Lys	AAG Lys 270	TTT Phe	CTG Leu	GCA Ala	ATG Met	CTC Leu 275	CTG Leu	CAG Gln	AAT Asn	TCT Ser	CCT Pro 280	ACC Thr	AAA Lys	928
AAC Asn	CAT His	CTC Leu 285	ACC Thr	AAT Asn	CCC Pro	TGT Cys	TAC Tyr 290	CCT Pro	CGG Arg	GAT Asp	TAT Tyr	AGC Ser 295	ATC Ile	AGC Ser	TTC Phe	976
ACC Thr	ATG Met 300	Gly	CAT His	GTA Val	TTT Phe	GAT Asp 305	AGC Ser	CTG Leu	TGC Cys	ACT Thr	GTG Val 310	GAC Asp	CAG Gln	AGG Arg	CCA Pro	1024
GAA Glu 315	AGT Ser	TAT Tyr	AAC Asn	CCC Pro	AAT Asn 320	GAT Asp	GTC Val	ATC Ile	ACT Thr	TTT Phe 325	GAA Glu	GGA Gly	ACT Thr	GGG G1 <u>y</u>	GAC Asp 330	1072
CCA Pro	TCT Ser	CTG Leu	TGT Cys	AAG Lys 335	GAG Glu	AAG Lys	GTG Val	GCT Ala	TCC Ser 340	ATA Ile	TTT Phe	GAC Asp	TTC Phe	AAA Lys 345	GCT Ala	1120
TGC Cys	CAT His	GAT Asp _.	CAA Gln 350	GAA Glu	ACC Thr	TGT Cys	TCT Ser	TTT Phe 355	GAT Asp	GGG Gly	GTT Val	TAT Tyr	CAG Gln 360	CCA Pro	AAG Lys	1168
Ile	Lys	Gly 365	Pro	Phe	Val	Ala	Phe 370	Ala	Gly	Phe	TAC Tyr	Tyr 375	Thr	Ala	Ser	1216
GCT Ala	TTA Leu 380	AAT Asn	CTT Leu	TCA Ser	GGT Gly	AGC Ser 385	TTT Phe	TCC Ser	CTG Leu	GAC Asp	ACC Thr 390	TTC Phe	AAC Asn	TCC Ser	AGC Ser	1264
ACC Thr 395	TGG Trp	AAT Asn	TTC Phe	TGC Cys	TCA Ser 400	CAG Gln	AAT Asn	TGG Trp	AGT Ser	CAG Gln 405	CTC Leu	CCA Pro	CTG Leu	CTG Leu	CTC Leu 410	1312
CCC Pro	AAA Lys	TTT Phe	GAT Asp	GAG Glu 415	GTA Val	TAT Tyr	GCC Ala	CGC Arg	TCT Ser 420	TAC Tyr	TGC Cys	TTC Phe	TCA Ser	GCC Ala 425	AAC Asn	1360
TAC Tyr	ATC Ile	TAC Tyr	CAC His 430	TTG Leu	TTT Phe	GTG Val	AAC Asn	GGT Gly 435	TAC Tyr	AAA Lys	TTC Phe	ACA Thr	GAG Glu 440	GAG Glu	ACT Thr	1408
TGG Trp	CCC Pro	CAA Gln 445	ATA Ile	CAC His	TTT Phe	GAA Glu	AAA Lys 450	GAA Glu	GTG Val	GGG Gly	TAA neA	AGC Ser 455	AGC Ser	ATA Ile	GCC Ala	1456
TGG Trp	TCT Ser 460	CTT Leu	GGC Gly	TAC Tyr	ATG Met	CTC Leu 465	AGC Ser	CTG Leu	ACC Thr	AAC Asn	CAG Gln 470	ATC Ile	CCA Pro	GCT Ala	GAA Glu	1504
AGC Ser 475	CCT Pro	CTG Leu	ATC Ile	CGT Arg	CTG Leu 480	CCC Pro	ATA Ile	GAA Glu	CCA Pro	CCT Pro 485	GTC Val	TTT Phe	GTG Val	GGC Gly	ACC Thr 490	1552

Fig. 6 (cont.d.)

(CHEET 12 OF 16)

TAC CTG TGT TCA GCA ACC AGA AGA AGA AGA AGG CAC TCC GAG CAT GCC TTT Tyr Leu Cys Ser Ala Thr Arg Arg Lys Arg His Ser Glu His Ala Phe 510 515 520 GAC CAT GCA GTG GAT TCT GAC TGAGCCTTCA AAGCAGCTCC TGGAGTCCAA TGGC Asp His Ala Val Asp Ser Asp 525 TGCTTAGAGT CAGCCTGGGT GGCACCAGGC AATGCAGTC AAGTGGCTGC CTTCAGGAAA TACAACTAAC TAAAATCAAA CACCTAGGTC ACGTGCCTCT GAGAATACTGA TTTCTGCCAC AGCACCTCTT GAGGCATCCC TTGGCTATTC TGTGCATATT GTTCTTCAGA GACCTCACTA CCCCACATGCT CAGATAGGTC AGAGACAGGC CACTAAGGTC AGGCTCTTTA TATTAAGTTC CCCAGAGGAA GAGTAAGTTG TCCAGGTATC TCCAGTAGTC CAATTAATGT TGAAGAATTG TCCTGAGGC TACTTCCTCC TCAGTTATTCC CAATTAATGT TGAAGAATTG TCCTGGGAAC CAATCAGAAT CTCATTTTAT AGTTTTTCCC GGAGAAGACT TACTTCCTTC AGGGCAGAAAC CCCCCAGACCAG GCTTCTTCA AGTATCTGGG GGAATCCCAC TACCGCAGAAAAC TACAGGTCA TACAGGTCA TACAGGTCAGATC TCCCGAAGGA CAGACAATA AAAAAGGTCT CCCAGAGAAAC TATTAGACCAT TCCCCAAGTCAGTC TCCCGAAGCA CAGACACATA AAAAAGGTCT CCCAGAGAAAC TATTAGACCAT TCCCCAAGTCAGTC TCCCGAAGCA CAGACACATA AAAAAGGTCT CCCAGAGAAAC TATTAGACCAT TCCCCAAGTCAGATC TCCCCAAGACAC AGACACATA AAAAAGGTCT CCCAGAGAAAC TATTAGACCAT TCCCCAAGTCAGATC TCCCCAAGCACA TACAGACTA AAAAAGGTCT CCCAGAGAAAC TATTAGACCAT TCCCCAAGTCAGATC TCCCCAAGACAC AGACACATA AAAAAGGTCT CCCAGAGAAAC TATTAGACCAT TCCCCAAGTCAGATC TCCCCAAGACAC AGACACATA AAAAAGGTCT CCCAGAGAAAC TATTAGACCAT TCCCCAAGACCAT TCCCCACAGCCAG TTCCCAAGACCAT TCCCACAGACCAT TATTAGACCAT TCCCCAAGACCAT TATTAGACCAT TCCCCAAGACCAT TACTAGAGTCAT TCCCCAAGACCAT TATTAGACCAT TCCCCAAGACCAT TCCCCAAGACCAT TACTAGACCAT TCCCCAAGACCAT TCCCCAAGACCAT TCCCCAAGACCAT TCCCCAAGACCAT TCCCCAAGACAT TCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCAAGACAT TCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCAAGACAT TCCCAAGACAT TCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCAAGACAT TCCCCA	1648
TGCTTAGAGT CAGCCTGGGT GGCACCAGGC AATGCAGGTG AAGTGGCTGC CTTCAGGAAA TACAACTAAC TAAAATCAAA CACCTAGGTC ACGTGCCTCT CAAATACTGA TTTCTGCCAC AGGCACCTCTT GAGGCATCCC TTGGCTATTC TGTGCATATT GTTCTTCAGA GACCTCACTA GATCTATTGG GGAACAGAGA AGACACAGGC CACTAAGGTC AGGCTCTTTA AGCTTACAGGT TCAGTTTCCC CAACTATTCT TCCTGCCAC AGCCATATTC TCCTGCCAAG ATACCCATTA AGCTTTCGTA ACTATTCT TCCTGGCAAG ATACCCATTA AGCTATTCGT CAACTAGAAC TACCTCTTA AGCTATTCT ACTATTCT ACTATTCT ACTATTCT ACTAGAACT TCCCCGAAGCA TACCCACTA AGGACACATA AAAAAGGTCT CCCCGAAGACA TACCCATGA TACAGGTAGA	
AGCACCTCTT GAGGCATCCC TTGGCTATTC TGTGCATATT GTTCTTCAGA GACCTCACTA GATCTATTGG GAACAGAGA AGAGACAGGC CACTAAGGTC AGCCTCACTA AGCTCAGGGC TCAGTATCG AGCTCACTA AGCTATCGC CAATAAGTT TGAAGAATTG ACCTCAGGGC TCAGTTTCAA GATCTATTCT TCCTTCAATTCT TCCTGGCAAGA ATACCCATTA AGCTATTTCTTCTTGAGC AATCCTCATA GCAGTAAACC CCCCCAGACCA ATCCCATTA AGCTATCTCTTC AGGGCAGCAG CCCCCCAGACCAG GCTTCTCTCA TACAGGTAGA TCCCCGAAGACAT AAAAAGGTCT CCCCGAAGACA TACAGGTAGA TCCCCGAAGCA ACCACGCAG CCTCTCTCA TACAGGTAGA	
TCTCACCATT GTATTGCTAT GCCCTCCCAT AAAAACACAT TGATCCTCA CAAGATTATT GCATTCCAGA TITTACTGCC TTTGCTAGG TTTTGCTAGC CAAAGACTATT GTTATCATGG TGTATATATT TTTGTCACCA TTCCCACAAG TATACTTGAT GTTGTCATAG AACGAACATC CTACTCTATG ATTTACTAAC CAATTACTTT CCCAGATCAT AGACCTCTCT GCATAGTAGT CATAGGTCTT GACTTTGGGG AAAGAAAAGG AAGCTGCAGG AATATTTATC TCCAAAAGTCG AATGAGAAAG AACTCCAGCA AATCCAATGG CTACAAACTA AAAATCAGCA TATATTTCATA TTGCTGTTTC TTAGCTGAAT ATGGAATAAA GAACTATTAT TTTATTTTGA	1763 1823 1883 2003 2003 2103 2123 2243 2243 2303 2423 2483 2483 2603 2663 2723 2723 2783 2797

FIG. 6 (cont.d)

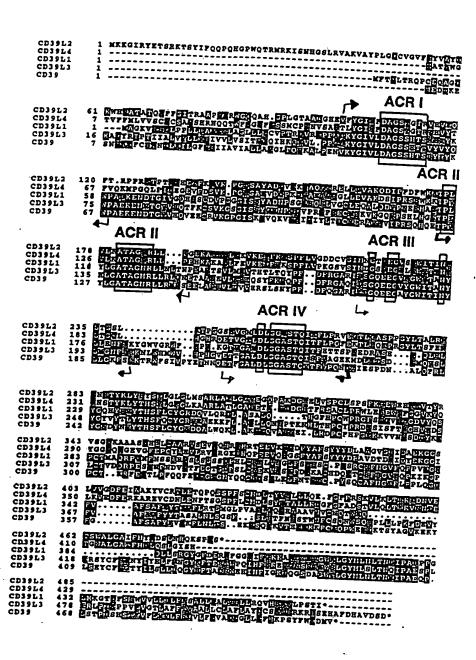
"HEET 13 OF 16)

TCA'	TACA(AAGT(AGGT(GAC A	AAGA!	CAT' CAAA(CAGG!	FA TO SG AJ AT TO	GTG(ACCA) GCTT(TGG (CTGT AGGA CTGC	r ago S aai A aci Aca (AATTO AAAAO STC	SACT CAGA SCCT ITT : Phe :	TGTA AGGA CCA TTC	AAAGI CCCA(ATG (AAA I GCC I	AAAT ACAT GTG (GAATCC AGGTTG AGCCTC CTTGGG GTA Val	60 120 180 240 288
TCC Ser 15	TGT Cys	GTT Val	TGC Cys	AGC Ser	GCT Ala 20	GTC Val	TCC Ser	CAC His	AGG Arg	AAC Asn 25	CAG Gln	CAG Gln	ACT Thr	TGG Trp	TTT Phe 30	336
GAG Glu	GGT Gly	ATC Ile	TTC Phe	CTG Leu 35	TCT Ser	TCC Ser	ATG Met	TGC Cys	CCC Pro 40	ATC Ile	AAT Asn	GTC Val	AGC Ser	GCC Ala 45	AGC Ser	384
ACC Thr	TTG Leu	TAT Tyr	GGA Gly 50	ATT Ile	ATG Met	TTT Phe	GAT Asp	GCA Ala 55	GGG Gly	AGC Ser	ACT Thr	GTA	ACT Thr 60	CGA Arg	ATT Ile	432
CAT His	GTT Val	TAC Tyr 65	ACC Thr	TTT Phe	GTG Val	CAG Gln	AAA Lys 70	ATG Met	CCA Pro	GGA Gly	CAG Gln	CTT Leu 75	CCA Pro	ATT Ile	CTA Leu	480
GAA Glu	GGG Gly 80	GAA Glu	GTT Val	TTT Phe	GAT Asp	TCT Ser 85	GTG Val	AAG Lys	CCA Pro	GGA Gly	CTT Leu 90	TCT Ser	GCT Ala	TTT Phe	GTA Val	528
GAT Asp 95	CAA Gln	CCT Pro	AAG Lys	CAG Gln	GGT Gly 100	GCT' Ala	GAG Glu	ACC Thr	GTT Val	CAA Gln 105	GGG Gly	CTC Leu	TTA Leu	GAG Glu	GTG Val 110	576
GCC Ala	AAA Lys	GAC Asp	TCA Ser	ATC Ile 115	CCC Pro	CGA Arg	AGT Ser	CAC His	TGG Trp 120	AAA Lys	AAG Lys	ACC Thr	CCA Pro	GTG Val 125	GTC Val	624
CTA Leu	AAG Lys	GCA Ala	ACA Thr 130	GCA Ala	GGA Gly	CTA Leu	CGC Arg	TTA Leu 135	CTG Leu	CCA Pro	GAA Glu	CAC His	AAA Lys 140	GCC Ala	AAG Lys	672
GCT Ala	CTG Leu	CTC Leu 145	TTT Phe	GAG Glu	GTA Val	AAG Lys	GAG Glu 150	ATC Ile	TTC Phe	AGG Arg	AAG Lys	TCA Ser 155	CCT Pro	TTC Phe	CTG Leu	720
GTA Val	CCA Pro 160	AAG Lys	GGC Gly	AGT Ser	GTT Val	AGC Ser 165	ATC Ile	ATG Met	GAT Asp	GGA Gly	TCC Ser 170	GAC Asp	GAA Glu	GGC Gly	ATA Ile	768
TTA Leu 175	GCT Ala	TGG Trp	GTT Val	ACT Thr	GTG Val 180	AAT Asn	TTT Phe	CTG Leu	ACA Thr	GGT Gly 185	CAG Gln	CTG Leu	CAT His	GGC Gly	CAC His 190	816
AGA Arg	CAG Gln	GAG Glu	ACT Thr	GTG Val 195	GGG Gly	ACC Thr	TTG Leu	GAC Asp	CTA Leu 200	GGG Gly	GGA Gly	GCC Ala	TCC Ser	ACC Thr 205	CAA Gln	864
ATC Ile	ACG Thr	TTC Phe	CTG Leu 210	CCC Pro	CAG Gln	TTT Phe	GAG Glu	AAA Lys 215	ACT Thr	CTG Leu	GAA Glu	CAA Gln	ACT Thr 220	CCT Pro	AGG Arg	912
GGC Gly	TAC Tyr	CTC Leu 225	ACT Thr	TCC Ser	TTT Phe	GAG Glu	ATG Met 230	TTT Phe	AAC Asn	AGC Ser	ACT Thr	TAT Tyr 235	AAG Lys	CTC Leu	TAT Tyr	960

"SHEET 14 OF 16)

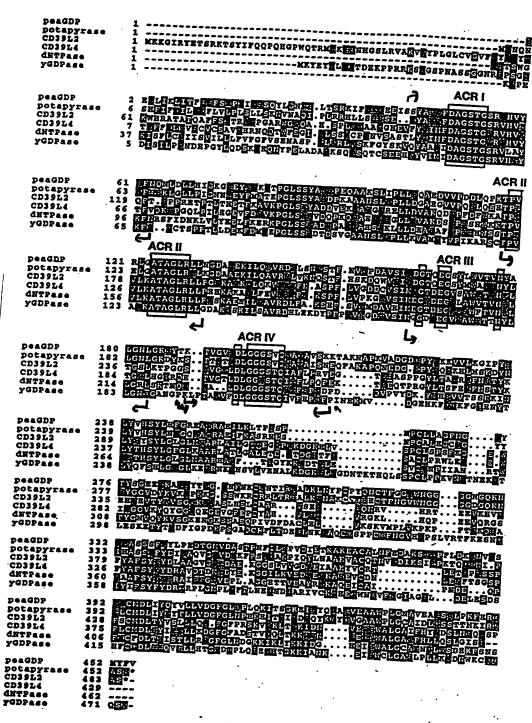
		Ser	TAC Tyr				Gly					Arg				1008
	Gly		CTG Leu			Glu					His					1056
			CCG Pro							Trp						1104
			TAT Tyr 290													1152
			GAA Glu													1200
			CAG Gln													1248
			GAC Asp													1296
			GAT Asp													1344
			ACC Thr 370													1392
			CTG Leu								Ala					1440
Leu			ACA . Thr		Lys					Glu						1488
			TTT (His :					Leu					TGAG	GCCAC	1539
TTTC TACAC TCAC CCAG TCCAC	TGAA CATC AGAG GGAC CTGA CAAT	CT A TA A AG C AG G AT A AT C	GTCT(TGTG) CCTG! TCCC! TTTAJ AGTA!	GGGA AACT IGAG IGGA ATT ITTT	C ATC G CTC C CA A ACC I TCC I TTC	CCTG GCCT. AAAA CAAA CTCT CCTC	gact Aacc Gtat Gaaa Iaaa Ccta	TGA ACT AGT AAT TGG TAC	GCCT. CAAG. TTTG: CGCA' IAAA! AGTG:	AGA AGT GAA ITT CTG CCC	GATT ACAC CTTA CAAC ACTT	TAGG AGCT ACCT CCTT ATTG	TT T. GG C. TG G. TG A.	AATT. ACCA AGTG. GTGC TCCC.	CTTAG AATTT GAGCA AGAGC CTCAT AAGAC GCACC	1599 1659 1719 1779 1839 1899 1959

F16.7 (cont'd)



F16.8

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F16. 9